

WHAT IS CLAIMED IS:

1. A two-way communications device for aquatic sports, said device comprising:

a life vest; and

a two-way transceiver embedded in the life vest.

2. The two-way communications device for aquatic sports of Claim 1, said device further comprising:

an antenna connected to a shoulder portion of the life vest, wherein said antenna is connected with wires to the two-way transceiver and wherein the wires are embedded in the life vest.

3. The two-way communications device for aquatic sports of Claim 1, wherein the transceiver is sealed in a waterproof housing embedded in the life vest.

4. The two-way communications device for aquatic sports of Claim 2, wherein said antenna forms an arc relative to the shoulder portion of the life vest, wherein said antenna comprises a first end and a second end, wherein the first end of the antenna is attached to a first portion of the shoulder portion of the life vest, and wherein the second end of the antenna is attached to a second portion of the shoulder portion of the life vest.

5. The two-way communications device for aquatic sports of Claim 4, wherein the antenna is shrouded with a material that webs the interior of the arc.

6. The two-way communications device for aquatic sports of Claim 1, said device further comprising:

a microphone embedded in a collar portion of the life vest.

1 7. The two-way communications device for aquatic sports of Claim 1,
2 said device further comprising:

3 a transducer; and

4 a flexible acoustic conduction tube, said flexible acoustic conduction tube
5 comprising a first end and a second end, wherein the first end of the flexible
6 acoustic conduction tube is connected to the transducer, and wherein the second
7 end of the flexible acoustic conduction tube is connected to the transceiver.

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9 8. The two-way communications device for aquatic sports of Claim 2,
10 said device further comprising:

11 a microphone embedded in a collar portion of the life vest.

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13 9. The two-way communications device for aquatic sports of Claim 2,
14 said device further comprising:

15 a transducer; and

16 a flexible acoustic conduction tube, said flexible acoustic conduction tube
17 comprising a first end and a second end, wherein the first end of the flexible
18 acoustic conduction tube is connected to the transducer, and wherein the second
19 end of the flexible acoustic conduction tube is connected to the transceiver.

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21 10. The two-way communications device for aquatic sports of Claim 1,
22 wherein said transceiver is operable for communication of radio frequencies
23 between 462.5625 MHz and 467.7125 MHz.

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25 11. The two-way communications device for aquatic sports of Claim 10,
26 said device further comprising:

27 an antenna connected to a shoulder portion of the life vest, wherein said
28 antenna is connected with wires to the two-way transceiver and wherein the
29 wires are embedded in the life vest.

1 12. The two-way communications device for aquatic sports of Claim 11,
2 said device further comprising:

3 a first microphone embedded in a collar portion of the life vest.
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5 13. The two-way communications device for aquatic sports of Claim 12,
6 said device further comprising:

7 a transducer; and

8 a flexible acoustic conduction tube, said flexible acoustic conduction tube
9 comprising a first end and a second end, wherein the first end of the flexible
10 acoustic conduction tube is connected to the transducer, and wherein the second
11 end of the flexible acoustic conduction tube is connected to the transceiver.
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13 14. The two-way communications device for aquatic sports of Claim 12,
14 said device further comprising:

15 a second microphone connected to the transceiver; and

16 wherein the transceiver is programmed to compare sound picked up by
17 the first microphone with sound picked up by the second microphone.
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19 15. A two-way communications system for aquatic sports, said system
20 comprising:

21 at least one life vest comprising a first two-way transceiver, a first antenna,
22 and a first set of wires connecting the first transceiver to the first antenna,
23 wherein said transceiver and said wires are embedded in the life vest, and
24 wherein said antenna is connected to the life vest;

25 a second transceiver, wherein said second transceiver is one of:
26 embedded in a second life vest or contained in a mobile unit.
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28 16. The two-way communications system for aquatic sports of Claim
29 15, wherein both of said first transceiver and second transceiver are operable for
30 communication of radio frequencies between 462.5625 MHz and 467.7125 MHz.
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1 17. The two-way communications system for aquatic sports of Claim
2 15, wherein at least one of said first transceiver and second transceiver is
3 operable according to voice command input to a first microphone connected to
4 said voice operable transceiver.

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6 18. The two-way communications system for aquatic sports of Claim
7 16, wherein the first antenna is connected to a shoulder portion of the life vest.

8
9 19. The two-way communications system for aquatic sports of Claim
10 18, wherein said first antenna forms an arc relative to the shoulder portion of the
11 life vest, wherein said first antenna comprises a first end and a second end,
12 wherein the first end of the first antenna is attached to a first portion of the
13 shoulder portion of the life vest, and wherein the second end of the first antenna
14 is attached to a second portion of the shoulder portion of the life vest.

15
16 20. A method of providing two-way communications for aquatic sports
17 participants, said method comprising:

18 embedding a first two-way transceiver in a life vest;
19 connecting a first antenna to a shoulder portion of the life vest; and
20 embedding in the life vest a first set of wires connecting the first
21 transceiver to the first antenna.

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23 21. The method of Claim 20, said method further comprising:
24 embedding a second two-way transceiver in one of: a second life vest or
25 contained in a mobile unit, wherein said first transceiver and said second
26 transceiver are operable to communicate with each other.